

SCREW CONVEYOR SPEED CALCULATION	
VERSION 1.1 7/10/98	
SCREW DIA., INCHES :	14.000 IN.
FLIGHT PITCH, INCHES :	7.000 IN.
PIPE / TUBE O.D., INCHES :	4.000 IN.
% OF TROUGH LOAD (30,45,ETC.):	100 %
CAPACITY REQ'D. , CU. FT. / HR :	6250.000 CFH
CFH / RPM =	34.362
SCREW RPM =	181.9

FILL IN GREEN CELLS ONLY

SCREW DEFLECTION		
<small>VERSION 1.1 7/10/98</small>		
STD. CALCULATON	SPECIAL PIPE / TUBE / SHAFT	CACULATION BY WEIGHT
SCREW DIA. : <input style="width: 90%;" type="text"/>	SCREW DIA. : <input style="width: 90%;" type="text"/>	SCREW WEIGHT : <input style="width: 90%;" type="text" value="21"/>
FLIGHT PITCH : <input style="width: 90%;" type="text"/>	FLIGHT PITCH : <input style="width: 90%;" type="text"/>	NOMINAL PIPE SIZE : <input style="width: 90%;" type="text" value="4.5"/>
FLIGHT THK'NS : <input style="width: 90%;" type="text"/>	FLIGHT THK'NS : <input style="width: 90%;" type="text"/>	PIPE SCH. (40, 80) : <input style="width: 90%;" type="text" value="40"/>
NOMINAL PIPE SIZE : <input style="width: 90%;" type="text"/>	PIPE / TUBE O.D. : <input style="width: 90%;" type="text"/>	LENGTH , FEET: <input style="width: 90%;" type="text" value="25.000 FT"/>
PIPE SCH. (40, 80) : <input style="width: 90%;" type="text"/>	WALL THK'NS : <input style="width: 90%;" type="text"/>	MID-SPAN. DEFL. : <input style="width: 90%;" type="text" value="0.0352 IN."/>
LENGTH, FEET : <input style="width: 90%;" type="text"/>	LENGTH, FEET : <input style="width: 90%;" type="text"/>	
M, SS ? : <input style="width: 90%;" type="text"/>	M, SS ? : <input style="width: 90%;" type="text"/>	
1-1/4" TO 12" PIPE, SCH. 40 & 80	FOR SHAFT, I.D. = 0	
	Moment of Inertia. : <input style="width: 90%;" type="text"/>	OPTION :
TOTAL WEIGHT : <input style="width: 90%;" type="text"/>	TOTAL WEIGHT : <input style="width: 90%;" type="text"/>	SCREW WEIGHT : <input style="width: 90%;" type="text"/>
		PIPE / TUBE O.D. : <input style="width: 90%;" type="text"/>
MID-SPAN. DEFL. : <input style="width: 90%;" type="text"/>	MID-SPAN DEFL. : <input style="width: 90%;" type="text"/>	WALL THK'NS : <input style="width: 90%;" type="text"/>
		LENGTH , FEET: <input style="width: 90%;" type="text"/>
		Moment of Inertia. : <input style="width: 90%;" type="text"/>
		MID-SPAN DEFL. : <input style="width: 90%;" type="text"/>
USE DECIMAL INCHES UNLESS NOTED	FILL IN GREEN CELLS ONLY	USE DECIMAL INCHES UNLESS NOTED

Arial 10

B I U

Font

Wrap Text

Merge & Center

Alignment

\$ % +

Number

Conditional Formatting

Format as Table

Styles

Insert

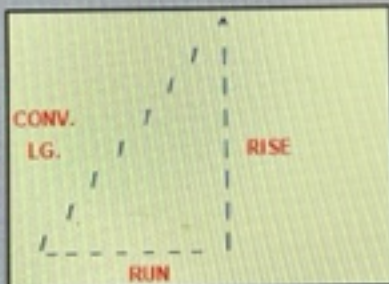
Delete

Cells

ANGLE OF INCLINE / SIDES OF A TRIANGLE

VERSION 1.1 7/10/98

KNOWN :	ANGLE :	40.000 DEG.
KNOWN :	CONV. LG. :	82.000
FIND :	RISE =	52.708
FIND :	RUN =	62.816



KNOWN :	CONV. LG. :	80.000
KNOWN :	RISE :	22.000
FIND :	RUN =	76.916
FIND :	ANGLE =	15.962 DEG.

KNOWN :	ANGLE :	
KNOWN :	RISE :	
FIND :	CONV. LG. =	
FIND :	RUN =	

KNOWN :	CONV. LG. :	21.000
KNOWN :	RUN :	20.396
FIND :	RISE =	5.000
FIND :	ANGLE =	13.78 DEG.

KNOWN :	ANGLE :	32.350 DEG.
KNOWN :	RUN :	30.000
FIND :	CONV. LG. =	35.512
FIND :	RISE =	19.002

KNOWN :	RISE :	19.000
KNOWN :	RUN :	30.000
FIND :	CONV. LG. =	35.511
FIND :	ANGLE =	32.35 DEG.

Fill in the Green Only